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1   LIFT: A Low-Overhead Practical Information Flow Tracking System for Detecting Security Attacks

Feng Qin, Cheng Wang, Zhenmin Li, Ho-seop Kim, Yuanyuan Zhou, Youfeng Wu
December 2006   MICRO 39: Proceedings of the 39th Annual IEEE/ACM International Symposium on Microarchitecture
Publisher: IEEE Computer Society

Full text available: 📄 Pdf (254.69 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 129,   Citation Count: 11

Computer security is severely threatened by software vulnerabilities. Prior work shows that information flow tracking (also referred to as taint analysis) is a promising technique to detect a wide range of security attacks. However, current information ...

2 Testing Intrusion detection systems: a critique of the 1998 and 1999 DARPA intrusion detection system evaluations as performed by Lincoln Laboratory

November 2000   ACM Transactions on Information and System Security (TISSEC), Volume 3 Issue 4

Publisher: ACM

Full text available: Pdf (156.16 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 56, Downloads (12 Months): 430, Citation Count: 39

In 1998 and again in 1999, the Lincoln Laboratory of MIT conducted a comparative evaluation of intrusion detection systems (IDSs) developed under DARPA funding. While this evaluation represents a significant and monumental undertaking, there are a number ...

Keywords: computer security, intrusion detection, receiver operating curves (ROC), software evaluation

3 ASM: application security monitor

Micha Moffie, David Kaeli

December 2005   ACM SIGARCH Computer Architecture News, Volume 33 Issue 5

Publisher: ACM

Full text available: Pdf (246.65 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 53, Citation Count: 0

Our Application Security Monitor (ASM) is a run-time monitor that dynamically collects execution-related data. ASM is part of a security framework that will allow us to explore different security policies aimed at identifying malicious behavior ...

4 Eudaemon: involuntary and on-demand emulation against zero-day exploits

Georgios Portokalidis, Herbert Bos

April 2008   Eurosys '08: Proceedings of the 3rd ACM SIGOPS/EuroSys European Conference on Computer Systems 2008

Publisher: ACM

Full text available: Pdf (381.70 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 102, Citation Count: 0

Eudaemon is a technique that aims to blur the borders between protected and unprotected applications, and brings together honeypot technology and end-user intrusion detection and prevention. Eudaemon is able to attach to any running process, and redirect ...

Keywords: honeypots, operating systems, security

5 Automatic labeling of semantic roles

Daniel Gildea, Daniel Jurafsky
September 2002 Computational Linguistics, Volume 28 Issue 3
Publisher: MIT Press

Full text available: Pdf (573.51 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 208, Citation Count: 72

We present a system for identifying the semantic relationships, or semantic roles, filled by constituents of a sentence within a semantic frame. Given an input sentence and a target word and frame, the system labels constituents with either ...

6 ABASH: finding bugs in bash scripts

Karl Mazurak, Steve Zdancewic
June 2007   PLAS '07: Proceedings of the 2007 workshop on Programming languages and analysis for security
Publisher: ACM

Full text available: Pdf (262.29 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 54, Citation Count: 0

This paper describes the design and implementation of ABASH, a tool for statically analyzing programs written in the bash scripting language. Although it makes no formal guarantees against missed errors or spurious warnings (largely due to the ...

Keywords: abstract interpretation, bash, scripting languages

7 Automatic temporal layout mechanisms revisited

M. Cecelia Buchanan, Polle T. Zellweger
February   ACM Transactions on Multimedia Computing, Communications, and
2005   Applications (TOMCCAP), Volume 1 Issue 1
Publisher: ACM

Full text available: Pdf (1.09 MB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 55, Citation Count: 3

A traditional static document has a spatial layout that specifies where objects in the document appear. Because multimedia documents incorporate time, they also require a temporal layout, or schedule, that specifies when events in the document occur. ...

Keywords: Multimedia documents, multimedia authoring, temporal formatting, temporal specification

8 Eudaemon: involuntary and on-demand emulation against zero-day exploits

Georgios Portokalidis, Herbert Bos
April 2008 ACM SIGOPS Operating Systems Review, Volume 42 Issue 4
Publisher: ACM

Full text available: Pdf (381.70 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 102, Citation Count: 0

Eudaemon is a technique that aims to blur the borders between protected and
unprotected applications, and brings together honeypot technology and end-user
intrusion detection and prevention. Eudaemon is able to attach to any running
process, and redirect ...

Keywords: honeypots, operating systems, security

9 Backtracking intrusions

Samuel T. King, Peter M. Chen
December 2003 ACM SIGOPS Operating Systems Review, Volume 37 Issue 5
Publisher: ACM

Full text available: Pdf (185.10 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 278, Citation Count: 29

Analyzing intrusions today is an arduous, largely manual task because system
administrators lack the information and tools needed to understand easily the
sequence of steps that occurred in an attack. The goal of BackTracker is to identify
automatically ...

Keywords: computer forensics, information flow, intrusion analysis

10 Backtracking intrusions

Samuel T. King, Peter M. Chen
October   SOSP '03: Proceedings of the nineteenth ACM symposium on Operating
2003   systems principles
Publisher: ACM

Full text available: Pdf (185.10 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 278, Citation Count: 29

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administrators lack the information and tools needed to understand easily the
sequence of steps that occurred in an attack. The goal of BackTracker is to identify
automatically ...

Keywords: computer forensics, information flow, intrusion analysis

11 Backtracking intrusions

Samuel T. King, Peter M. Chen
February   ACM Transactions on Computer Systems (TOCS),   Volume 23 Issue 1
2005
Publisher: ACM

Full text available: Pdf (647.38 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 20,   Downloads (12 Months): 198,   Citation Count: 4

Analyzing intrusions today is an arduous, largely manual task because system administrators lack the information and tools needed to understand easily the sequence of steps that occurred in an attack. The goal of BackTracker is to identify automatically ...

Keywords: Computer forensics, information flow, intrusion analysis

12 Communications of the ACM: Volume 51 Issue 7

July 2008   issue   Volume 51 Issue 7
Publisher: ACM

Full text available: Digital Edition , Pdf (6.54 MB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 2431,   Downloads (12 Months): 2614,   Citation Count: 0

13 Multi-module vulnerability analysis of web-based applications

Davide Balzarotti, Marco Cova, Viktoria V. Felmetsger, Giovanni Vigna
October   CCS '07: Proceedings of the 14th ACM conference on Computer and
2007   communications security
Publisher: ACM

Full text available: Pdf (319.23 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 47,   Downloads (12 Months): 515,   Citation Count: 0

In recent years, web applications have become tremendously popular, and nowadays they are routinely used in security-critical environments, such as medical, financial, and military systems. As the use of web applications for critical services has increased, ...

Keywords: dynamic analysis, multi-step attacks, static analysis, vulnerability analysis, web applications

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    November   ACM Transactions on Information and System Security (TISSEC),
    2000   Volume 3 Issue 4
    Publisher: ACM
    Full text available: 📄 Pdf (156.16   Additional Information: full citation, abstract, references, cited by,
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    Bibliometrics: Downloads (6 Weeks): 56, Downloads (12 Months): 430, Citation Count: 39

         In 1998 and again in 1999, the Lincoln Laboratory of MIT conducted a comparative
         evaluation of intrusion detection systems (IDSs) developed under DARPA funding.
         While this evaluation represents a significant and monumental undertaking, there are
         a number ...

         Keywords: computer security, intrusion detection, receiver operating curves (ROC),
         software evaluation

2 <u>Point-based computer graphics</u>

Marc Alexa, Markus Gross, Mark Pauly, Hanspeter Pfister, Marc Stamminger, Matthias Zwicker

August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available: Pdf (8.94 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>cited by</u>

Bibliometrics: Downloads (6 Weeks): 47,   Downloads (12 Months): 483,   Citation Count: 3

This course introduces points as a powerful and versatile graphics primitive. Speakers present their latest concepts for the acquisition, representation, modeling, processing, and rendering of point sampled geometry along with applications and research ...

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